Funding Sources for IT-related Efforts

Effective Date: May 15, 2002

Program Title (TBF)	Brief Description	"Prospective ICS-related Needs"	Periodicity/Last Cycle	TRL Range/ Focus*	Yrs to Infusion/Ops*	Enterprise Focus	Avg Size/Range of Awards*	URL For More Information	Important Note(s)
Most Likely For "Calls-For-Proposals" Within a Year									
GSFC Director's Discretionary Fund (DDF)	Special GSFC program intended to support imaginative ideas and innovative programs with "seed money."	Wide Open	Annually	1-3	3+	GSFC	any small + two $250	http://ddf.gsfc.nasa.gov/	Next call: late FY02 for FY03 competitive proposals
GSFC Internal Research & Development (IR&D)	Seed investments for technologies or mission concepts that are of strategic interest to GSFC; investment areas/needs are identified by Sr GSFC management	Confined to specific strategic area of interest by Center Director	Annually	1-4	3+	GSFC	varies		Discretionary funded; top-down decision is made for investment plan and amount
(Computing, Information & Communications Technologies) CICT Program- UPN 755	Primarily funds the validation and infusion of CICT-program technologies; also includes discretionary funds from HQ to support & sustain GSFC's Technology Core Competencies	Primarily Intelligence System, Automated Architectures, Advanced Science Data Processing Technologies	Annually	1-5		Y & S	$125K	http://www.aero-space.nasa.gov/	The CICT Program is a tightly coupled and coordinated research and development program organized into the following four technology-focused projects: Intelligent Systems (IS) Computing, Networking, and Information Systems, (CNIS) Space Communications, (SC) Information Technology Strategic Research (ITSR)
GMSEC (Goddard Mission Services Evolution Center)	Technology development and infusion of technologies primarily focused on mission ops, flight software, and some aspects of science data processing	* Mission Lifecycle Support *Ground Stations, DSN/SN, P&S *Tools and Analysis * Operations Concepts * Ground/Flight Infrastructure * Flight	Annually	3-8		Y & S	Varies	http://gmsec-pbma-kms.intranets.com/	
AIST (Advanced Information System Technology Program [ESTO-administrated]	Seeks information systems technologies to be applied to a variety of Earth Science Enterprise missions in the mid-3 to 6 yrs) and far-term (longer than 6 yrs).	Specific focus identified each year--previous focus on "On-board Processing". See upcoming solicitation fot detailed needs	Every 3 yrs/ FY00	3-7		Y	$200-500K	http://esto.nasa.gov/programs/aist/	July '02 Solicitation Release expected
NASA CIO's Pilot Proposals	IT Infrastructure and services-oriented- seeks demonstration projects or studies that are targeted to improving IT practices within NASA	Infrastructure IT to support e-NASA	Annually	3-9	1+	any but mainly IT infrastructure	Not to exceed $1M	http://eiger/ciopproposals/	Guided by eNASA. Each Center limited to three proposals per annual IT proposal year. **NOTE: Last call issued April 2001**.
"Calls For Proposals" On A Case-by-Case" Basis									
Code S - OMNI Research Opportunities in Space Science (ROSS)	NRA 02-OSS-01-Amendment 4. Solicits proposals for Supporting Research and Technology (SR&T) that seek to understand naturally occurring space phenomena and space science-related technologies. Broken down into 4 major themes.	See specific sub-topics below.	Annually	3-7		S		http://research.hq.nasa.gov/code_s	General Code S site for Proposal Reference Information
ROSS AIST			Annually	3-7		S		http://research.hq.nasa.gov	Future solicitations unlikely
ROSS Appendix A.1.2 Astrophysics Data Analysis	*"Proposals for the Analysis of Archival Data Requiring the Development of IT Tools"*	Advanced techniques or Applied Technology demonstrations to existing science data sets		3-7		S			NOI: 5/15/02 Proposal Due Date: 7/10/02
ROSS Appendix A.2.16 Astrobiology Science and Technology for Exploring Planets	*"Need for proposals for technology maturation and science data collection in the area of Autonomous recognition of Unexpected Science Phenomena."*			3-7		S			NOI: 9/06/02 Proposal Due Date: 11/06/02
ROSS Appendix A.3.7 Living With a Star (LWS) Targeted Research and Technology	*"Analyze data from past and present NASA spacecraft; develop cost-effective techniques for assimilating data from networks of research spacecraft"*	Challenges in "Data Fusion"/Large Scale modeling of disparate data sources for constellations		3-7		S	~$90K		NOI: 7/19/02 Proposal Due Date: 9/20/02
Explorers Technology Development Program	Develop technologies that will enhance the science productivity and lower the cost of future nonspecific Explorer-class missions.	Typically, spacecraft and automation technologies	Every few years/FY '99	1-6	3+	S- Future Explorer-class missions	$100-300K		in hiatus
Code AE- Office of the Chief Eng (program name)	NASA HQ Office of Chief Engineer	IT technologies to increase safety and engineering capabilities for missions				any		http://www.hq.nasa.gov/office/codeae/codeae/	
AEE (Advanced Engineering Environment)	Multi-year development initiative focused on building, deploying, and infusing a new creative engineering infrastructure. AEE will build upon existing capabilities developed by such initiatives as the Intelligent Synthesis Environment Program, CICT, CIO initiatives and pilots as well as investments made by the Enterprises. An Agency-wide integrated product team will develop and implement AEE.	Primarily, collaborative tools	FY'03-FY'08	3-9	5+	Agency-wide	$50.M		Point of Contact: Code AE/Steve Kapurch//Kris Brown/Code 531. **POTENTIAL NEW START IN FY03 TIME FRAME.**
New Millennium Program/Mission Announcements	Advanced-technology development programs created to develop and infuse a new generation of technologies and mission concepts into its future missions.	Identified in specific solicitation		4-7		Agency-wide		http://nmp.jpl.nasa.gov/	The program is unique, however, since it tests its advanced technologies in space flight. Though many space-related technologies can be tested sufficiently in laboratories on Earth, the technologies and concepts NMP selects, such as solar electric (ion) propulsion or spacecraft flying in formation, present a fairly **high risk** to missions that will use them for the first time.
Revolutionary Aerospace System Concepts (RASC)	RASC program seeks to maximize the benefits of revolutionary capabilities that span across the Enterprises. LaRC is responsible for developing new revolutionary aerospace system concepts and architectures, identifying new mission approaches...	TBD/"Far-reaching" Ideas	Annually	1-3		Agency-wide		http://rasc.larc.nasa.gov/	FY03 Request for Studies: 11/08/02. Concepts to be investigated only in the context of NASA mission needs with a horizon of approx. 25 years beyond the current selection cycle. NOTE: not a funding vehicle for research proposals.

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Commercial Technology Development (CTD)	The Commercial Technology Development (CTD) program will focus on funding and developing GSFC promising technologies that exhibit commercial potential.	Scope: wide-open; develop technology for commercial utilization	Annually	1-3		GSFC	$100K Max	http://nctn.oact.hq.nasa.gov/ctd	No proposal funded beyond 2 years. [End of September 2002 Call for Proposals]
Cross Enterprise Tech Dev Program UPN 757	Innovative research and development with multi-Enterprise application			1-5		Y & S		http://etdo.msfc.nasa.gov/CETDP.html	DEFUNCT- No future solicitations anticipated

*** Some of these values are subjective and simply "best guess"**